

C18:1 Frequencies
for 92EF (WSGA 1A X Q0508)

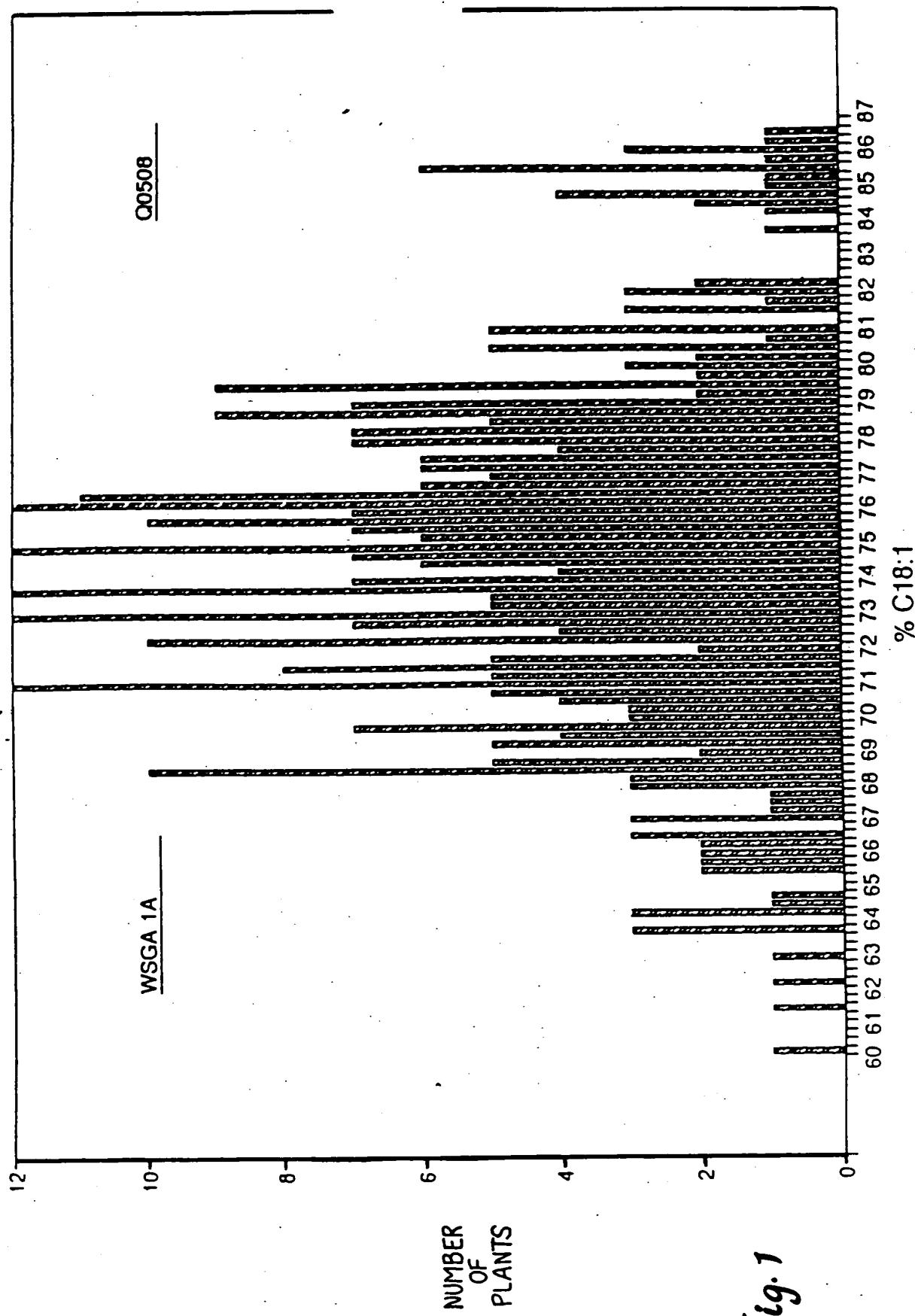


Fig. 1

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
 Dhanya R. Kodali et al.
 07148-072002

1	ATGGTGCAGGTGGAAATGCCAAGTGTCTCCCTCCCA	Fad2-D wt
1	ATGGTGCAGGTGGAAATGCCAAGTGTCTCCCTCCCA	Fad2-D (GA316) IMC 129
1	ATGGTGCAGGTGGAAATGCCAAGTGTCTCCCTCCCA	Fad2-F wt
1	ATGGTGCAGGTGGAAATGCCAAGTGTCTCCCTCCCA	Fad2-F (TA515) Q508
1	ATGGTGCAGGTGGAAATGCCAAGTGTCTCCCTCCCA	Fad2-F (GA908) Q4275
41	AAGTCTGAAACCGAACATCAAAAGCGGCTACCCCTGCCA	Fad2-D wt
41	AAGTCTGAAACCGAACATCAAAAGCGGCTACCCCTGCCA	Fad2-D (GA316) IMC 129
41	AAGTCTGAAACCGAACATCAAAAGCGGCTACCCCTGCCA	Fad2-F wt
41	AAGTCTGAAACCGAACATCAAAAGCGGCTACCCCTGCCA	Fad2-F (TA515) Q508
41	AAGTCTGAAACCGAACATCAAAAGCGGCTACCCCTGCCA	Fad2-F (GA908) Q4275
81	GACCCGCC'CTTCACTGTCGGGAGAACCTCAAGAAAGCAAATC	Fad2-D wt
81	GACCCGCC'CTTCACTGTCGGGAGAACCTCAAGAAAGCAAATC	Fad2-D (GA316) IMC 129
81	GACCCGCC'CTTCACTGTCGGGAGAACCTCAAGAAAGCAAATC	Fad2-F wt
81	GACCCGCC'CTTCACTGTCGGGAGAACCTCAAGAAAGCAAATC	Fad2-F (TA515) Q508
81	GACCCGCC'CTTCACTGTCGGGAGAACCTCAAGAAAGCAAATC	Fad2-F (GA908) Q4275
121	CCACCGCACCTGTTCAAAACGGCTCGATCCCTCGCTTCT	Fad2-D wt
121	CCACCGCACCTGTTCAAAACGGCTCGATCCCTCGCTTCT	Fad2-D (GA316) IMC 129
121	CCACCGCACCTGTTCAAAACGGCTCGATCCCTCGCTTCT	Fad2-F wt
121	CCACCGCACCTGTTCAAAACGGCTCGATCCCTCGCTTCT	Fad2-F (TA515) Q508
121	CCACCGCACCTGTTCAAAACGGCTCGATCCCTCGCTTCT	Fad2-F (GA908) Q4275

Fig. 2A

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
TOTAL MONOUNSATURATED FATTY ACID CONTENT

**Lorraine R. KU
07148-072003**

161	CCTACCTCATCTGGGACATCATAGCCCTGGCTTCCTA	Fad2-D wt
161	CCTACCTCATCTGGGACATCATAGCCCTGGCTTCCTA	Fad2-D (GA316) IMC 12S
161	CCTACCTCATCTGGGACATCATAGCCCTGGCTTCCTA	Fad2-F wt
161	CCTACCTCATCTGGGACATCATAGCCCTGGCTTCCTA	Fad2-F (TA515) Q508
161	CCTACCTCATCTGGGACATCATAGCCCTGGCTTCCTA	Fad2-F (GA908) Q4275
170	180	190
201	CCTACCGCCACCACTTACTTCCCCTCTCCCTCACCC	Fad2-D wt
201	CCTACGGCCACCACTTACTTCCCCTCTCCCTCACCC	Fad2-D (GA316) IMC 12S
201	CCTACGGCCACCACTTACTTCCCCTCTCCCTCACCC	Fad2-F wt
201	CCTACGGCCACCACTTACTTCCCCTCTCCCTCACCC	Fad2-F (TA515) Q508
201	CCTACGGCCACCACTTACTTCCCCTCTCCCTCACCC	Fad2-F (GA908) Q4275
210	220	230
241	CTCTCCTACTTCCGCCCTGGCCCTCTACTGGCCCTGG	Fad2-D wt
241	CTCTCCTACTTCCGCCCTGGCCCTCTACTGGCCCTGG	Fad2-D (GA316) IMC 12S
241	CTCTCCTACTTCCGCCCTGGCCCTCTACTGGCCCTGG	Fad2-F wt
241	CTCTCCTACTTCCGCCCTGGCCCTCTACTGGCCCTGG	Fad2-F (TA515) Q508
241	CTCTCCTACTTCCGCCCTGGCCCTCTACTGGCCCTGG	Fad2-F (GA908) Q4275
250	260	270
281	GCTGGGTCTAACCGGGTCTGGGTCTGGGTCTGGGT	Fad2-D wt
281	GCTGGGTCTAACCGGGTCTGGGTCTGGGTCTGGGT	Fad2-D (GA316) IMC 12S
281	GCTGGGTCTAACCGGGTCTGGGTCTGGGTCTGGGT	Fad2-F wt
281	GCTGGGTCTAACCGGGTCTGGGTCTGGGTCTGGGT	Fad2-F (TA515) Q508
281	GCTGGGTCTAACCGGGTCTGGGTCTGGGTCTGGGT	Fad2-F (GA908) Q4275
290	300	310
320	330	340

Fig. 2B

**PLANTS, SEEDS AND OILS HAVING AN ELEVATED
TOTAL MONOUNSATURATED FATTY ACID CONTENT**

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330	340	350	360
C G G C C A C C C A C G C C T T C A G C G A C T A C C A G T G G C T T G G A C C A C Fad2-D wt 3321 C G G C C A C C C A C G G C C T T C A G C G A C T A C C A G T G G C T T G G A C C A C Fad2-D (GA316) IMC 125 3321 C G G C C A C C C A C G G C C T T C A G C G A C T A C C A G T G G C T T G G A C C A C Fad2-F wt 3321 C G G C C A C C C A C G G C C T T C A G C G A C T A C C A G T G G C T T G G A C C A C Fad2-F (TA515) Q508 3321 C G G C C A C C C A C G G C C T T C A G C G A C T A C C A G T G G C T T G G A C C A C Fad2-F (GA908) Q4275			
370	380	390	400
A C C G T C G G G C C T C A T C T T C C A C T C C T T C C C T C C G T C C C C T T Fad2-D wt 3361 A C C G T C G G G C C T C A T C T T C C A C T C C T T C C C T C C G T C C C C T T Fad2-D (GA316) IMC 125 3361 A C C G T C G G G T C T C A T C T T C C A C T C C T T C C C T C C G T C C C C T T Fad2-F wt 3361 A C C G T C G G G T C T C A T C T T C C A C T C C T T C C C T C C G T C C C C T T Fad2-F (TA515) Q508 3361 A C C G T C G G G T C T C A T C T T C C A C T C C T T C C C T C C G T C C C C T T Fad2-F (GA908) Q4275			
410	420	430	440
A C T T C T C C T G G A A G T A C A G T C A T C G A C G C C A C C A T T C C A A Fad2-D wt 401 A C T T C T C C T G G A A G T A C A G T C A T C G A C G C C A C C A T T C C A A Fad2-D (GA316) IMC 129 401 A C T T C T C C T G G A A G T A C A G T C A T C G A C G C C A C C A T T C C A A Fad2-F wt 401 A C T T C T C C T G G A A G T A C A G T C A T C G A C G C C A C C A T T C C A A Fad2-F (TA515) Q508 401 A C T T C T C C T G G A A G T A C A G T C A T C G A C G C C A C C A T T C C A A Fad2-F (GA908) Q4275			
450	460	470	480
C A C T G G C T C C C T C G A G G A G C G A A G T G T T T G T C C C C A A G Fad2-D wt 441 C A C T G G C T C C C T C G A G G A G C G A A G T G T T T G T C C C C A A G Fad2-D (GA316) IMC 129 441 C A C T G G C T C C C T C G A G G A G C G A A G T G T T T G T C C C C A A G Fad2-F wt 441 C A C T G G C T C C C T C G A G G A G C G A A G T G T T T G T C C C C A A G Fad2-F (TA515) Q508 441 C A C T G G C T C C C T C G A G G A G C G A A G T G T T T G T C C C C A A G Fad2-F (GA908) Q4275			

Fig. 20

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
 Larma R. Kodali et al.
 07148-072002

481	A G A A G T C A G A C A T C A A G T G G T A C G G C A A G T A C C T C A A C A	500		510		520
481	A A G A A G T C A G A C A T C A A G T G G T A C G G C A A G T A C C T C A A C A	490		500		510
481	A A G A A G T C A G A C A T C A A G T G G T A C G G C A A G T A C C T C A A C A			510		520
481	A A G A A G T C A G A C A T C A A G T G G T A C G G C A A G T A C C T C A A C A					520
481	A A G A A G T C A G A C A T C A A G T G G T A C G G C A A G T A C C T C A A C A					
521	A C C C T T T G G A C G G A C C C G T G A T G T T A A C G G T T C A G T T C A C	530		540		550
521	A C C C T T T G G A C G G A C C C G T G A T G T T A A C G G T T C A G T T C A C			540		550
521	A C C C T T T G G A C G G A C C C G T G A T G T T A A C G G T T C A G T T C A C					550
521	A C C C T T T G G A C G G A C C C G T G A T G T T A A C G G T T C A G T T C A C					
521	A C C C T T T G G A C G G A C C C G T G A T G T T A A C G G T T C A G T T C A C					
521	A C C C T T T G G A C G G A C C C G T G A T G T T A A C G G T T C A G T T C A C					
561	T C T C G G C T G G C C T T G T A C T T A G C G C T T C A A C G T C T C G G G G	570		580		590
561	T C T C G G C T G G C C T T G T A C T T A G C G C T T C A A C G T C T C G G G G			580		590
561	T C T C G G C T G G C C T T G T A C T T A G C G C T T C A A C G T C T C G G G G					590
561	T C T C G G C T G G C C T T G T A C T T A G C G C T T C A A C G T C T C G G G G					
561	T C T C G G C T G G C C T T G T A C T T A G C G C T T C A A C G T C T C G G G G					
561	T C T C G G C T G G C C T T G T A C T T A G C G C T T C A A C G T C T C G G G G					
601	A G A C C T T A C G A C G G C T T C G C T T G C C A T T C C A C C C C A	610		620		630
601	A G A C C T T A C G A C G G C T T C G C T T G C C A T T C C A C C C C A			620		630
601	A G A C C T T A C G A C G G C T T C G C T T G C C A T T C C A C C C C A					630
601	A G A C C T T A C G A C G G C T T C G C T T G C C A T T C C A C C C C A					
601	A G A C C T T A C G A C G G C T T C G C T T G C C A T T C C A C C C C A					
601	A G A C C T T A C G A C G G C T T C G C T T G C C A T T C C A C C C C A					

Fig. 2D

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
 Dharma R. Kodali et al.
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641	ACGGCTCCCATCCTAACGACCCGTGAGCCGGTCTCCAGATAA	Fad2-D wt
641	ACGGCTCCCATCCTAACGACCCGTGAGCCGGTCTCCAGATAA	Fad2-D (GA316) IMC 129
641	ACGGCTCCCATCCTAACGACCCGGAGCCGGTCTCCAGATAA	Fad2-F wt
641	ACGGCTCCCATCCTAACGACCCGGAGCCGGTCTCCAGATAA	(TA515) Q508
641	ACGGCTCCCATCCTAACGACCCGGAGCCGGTCTCCAGATAA	(GA908) Q4275
	650	660
	660	670
	670	680
	690	700
	700	710
	710	720
	730	740
	740	750
	750	760
681	CATCTCCGGACATCGCTGGCATTCCTCGCCCTACGGTCTC	Fad2-D wt
681	CATCTCCGGACATCGCTGGCATTCCTCGCCCTACGGTCTC	Fad2-D (GA316) IMC 129
681	CATCTCCGGACATCGCTGGCATTCCTCGCCCTACGGTCTC	Fad2-F wt
681	CATCTCCGGACATCGCTGGCATTCCTCGCCCTACGGTCTC	(TA515) Q508
681	CATCTCCGGACATCGCTGGCATTCCTCGCCCTACGGTCTC	(GA908) Q4275
	770	780
	780	790
	790	800
721	TACCGCTACGGCTGGTCCAAAGGAGTTGCCCTCGATGGTCT	Fad2-D wt
721	TACCGCTACGGCTGGTCCAAAGGAGTTGCCCTCGATGGTCT	Fad2-D (GA316) IMC 129
721	TTCCTGGTACGGCCGGCCGGCCGGTACGGCCGGTACGGCC	Fad2-F wt
721	TTCCTGGTACGGCCGGCCGGTACGGCCGGTACGGCC	(TA515) Q508
721	TTCCTGGTACGGCCGGCCGGTACGGCCGGTACGGCC	(GA908) Q4275
	810	820
	820	830
	830	840
	840	850
	850	860
761	GCTTCTACGGAGTTCCCTCTGATTGTCAAAGGGTTCTT	Fad2-D wt
761	GCTTCTACGGAGTTCCCTCTGATTGTCAAAGGGTTCTT	Fad2-D (GA316) IMC 129
761	GCTTCTACGGAGTCCTGGCTTCAATGGTTCTCCT	Fad2-F wt
761	GCTTCTACGGAGTCCTGGCTTCAATGGTTCTCCT	(TA515) Q508
761	GCTTCTACGGAGTCCTGGCTTCAATGGTTCTCCT	(GA908) Q4275
	870	880
	880	890
	890	900

Fig. 2E

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
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801	A G T T T G A T C T A C T T G C A G G C A C C G C A T C C T T C C C T G	Fad2-D wt
801	A G T T T G A T C A C T T A C T T G C A G G C A C C G C A T C C T T C C C T G	Fad2-D (GA316) IMC 125
801	C G T G T T G A T C A C T T A C T T G C A G G C A C C G C A T C C T T C C C T G	Fad2-F wt
801	C G T G T T G A T C A C T T A C T T G C A G G C A C C G C A T C C T T C C C T G	Q508
801	C G T G T T G A T C A C T T A C T T G C A G G C A C C G C A T C C T T C C C T G	Q4275
		840
810		820
810		830
810		840
841	C C T C A C T A T G A C T C T C G T C T G A G T G G G A T T G G T T G A G G G G A G	Fad2-D wt
841	C C T C A C T A T G A C T C T C G T C T G A G T G G G A T T G G T T G A G G G A G	Fad2-D (GA316) IMC 125
841	C C T C A C T A C G A T T C G T C C G A G T T G G G A T T G G T T G A G G G A G	Fad2-F wt
841	C C T C A C T A C G A T T C G T C C G A G T T G G G A T T G G T T G A G G G A G	Q508
341	C C T C A C T A C G A T T C G T C C G A G T T G G G A T T G G T T G A G G G A G	Q4275
		850
		860
		880
841		870
841		880
890		900
890		910
890		920
881	C T T T G G C C A C C G T T G A C A G A G A C T A C G G A A T C T C T T G A A C C A A	Fad2-D wt
881	C T T T G G C C A C C G T T G A C A G A G A C T A C G G A A T C T C T T G A A C C A A	Fad2-D (GA316) IMC 125
881	C T T T G G C T A C C G T T G A C A G A G A C T A C G G A A A T C T C T T G A A C C A A	Fad2-F wt
881	C T T T G G C T A C C G T T G A C A G A G A C T A C G G A A A T C T C T T G A A C C A A	Q508
881	C T T T G G C T A C C G T T G A C A G A G A C T A C G G A A A T C T C T T G A A C C A A	Q4275
		930
		940
		950
921	G G T C T T C C A C A A T A T C A C G G A C A C G G C A C G G T G G G C A T C A C	Fad2-D wt
921	G G T C T T C C A C A A T A T C A C G G A C A C G G C A C G G T G G G C A T C A C	Fad2-D (GA316) IMC 125
921	G G T C T T C C A C A A T A T C C A C A T T A C C G A C A C G G C A C G G T G G G C A T C A T	Fad2-F wt
921	G G T C T T C C A C A A T A T C C A C A T T A C C G A C A C G G C A C G G T G G G C A T C A T	Q508
921	G G T C T T C C A C A A T A T C C A C A T T A C C G A C A C G G C A C G G T G G G C A T C A T	Q4275
		960

Fig. 2f

PLANTS, SEEDS AND OILS HAVING AN ELEVATED TOTAL MONOUNSATURATED FATTY ACID CONTENT

Charma R. Kodali et al
271-12 272-222

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Fig. 29

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
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1090	1100	1110	1120
1081 A G G A G T G T A T C C T A T G T G G A A C C G G A C A G G C A A G G T G A G A Fad2-D wt			
1081 A A G G A G T G T A T C C T A T G T G G A A C C G G A C A G G C A A G G T G A G A Fad2-D (GA316) IMC 129			
1081 A A G G A G T G T A T C C T A T G T G G A A C C G G A C A G G C A A G G T G A G A Fad2-F wt			
1081 A A G G A G T G T A T C C T A T G T G G A A C C G G A C A G G C A A G G T G A G A Fad2-F (TA515) Q508			
1081 A A G G A G T G T A T C C T A T G T G G A A C C G G A C A G G C A A G G T G A G A Fad2-F (GA908) Q4275			
1130	1140	1150	1150
1121 A G A A A G G T G T G T G T C T G G T A C A A C A A T A A G T T A T G A Fad2-D wt			
1121 A G A A A G G T G T G T G T C T G G T A C A A C A A T A A G T T A T G A Fad2-D (GA316) IMC 129			
1121 A G A A A G G T G T G T C T G G T A C A A C A A T A A G T T A T G A Fad2-F wt			
1121 A G A A A G G T G T G T C T G G T A C A A C A A T A A G T T A T G A Fad2-F (TA515) Q508			
1121 A G A A A G G T G T G T C T G G T A C A A C A A T A A G T T A T G A Fad2-F (GA908) Q4275			

Fig. 2H

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
TOTAL MONOUNSATURATED FATTY ACID CONTENT

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1	Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Ser Glu Thr Asp Asn	Fad2-D wt
1	Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Ser Glu Thr Asp Asn	Fad2-D (GA316) IMC129
1	Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Ser Glu Thr Asp Thr	Fad2-F wt
1	Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Ser Glu Thr Asp Thr	Fad2-F (TA515) Q508
1	Met Gly Ala Gly Gly Arg Met Gln Val Ser Pro Pro Ser Lys Ser Glu Thr Asp Thr	Fad2-F (GA908) Q4275
<hr/>		
21	Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr Val Gly Glu Leu Lys Lys Ala Ile	Fad2-D wt
21	Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr Val Gly Glu Leu Lys Lys Ala Ile	Fad2-D (GA316) IMC129
21	Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr Val Gly Glu Leu Lys Lys Ala Ile	Fad2-F wt
21	Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr Val Gly Glu Leu Lys Lys Ala Ile	Fad2-F (TA515) Q508
21	Ile Lys Arg Val Pro Cys Glu Thr Pro Pro Phe Thr Val Gly Glu Leu Lys Lys Ala Ile	Fad2-F (GA908) Q4275
<hr/>		
30		
40		
<hr/>		
41	Pro Pro His Cys Phe Lys Arg Ser Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile	Fad2-D wt
41	Pro Pro His Cys Phe Lys Arg Ser Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile	Fad2-D (GA316) IMC129
41	Pro Pro His Cys Phe Lys Arg Ser Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile	Fad2-F wt
41	Pro Pro His Cys Phe Lys Arg Ser Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile	Fad2-F (TA515) Q508
41	Pro Pro His Cys Phe Lys Arg Ser Ile Pro Arg Ser Phe Ser Tyr Leu Ile Trp Asp Ile	Fad2-F (GA908) Q4275
<hr/>		
50		
60		
<hr/>		
70		
80		
<hr/>		
61	Ile Ile Ala Ser Cys Phe Tyr Tyr Val Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro	Fad2-D wt
61	Ile Ile Ala Ser Cys Phe Tyr Tyr Val Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro	Fad2-D (GA316) IMC129
61	Ile Ile Ala Ser Cys Phe Tyr Tyr Val Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro	Fad2-F wt
61	Ile Ile Ala Ser Cys Phe Tyr Tyr Val Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro	Fad2-F (TA515) Q508
61	Ile Ile Ala Ser Cys Phe Tyr Tyr Val Ala Thr Thr Tyr Phe Pro Leu Leu Pro His Pro	Fad2-F (GA908) Q4275

Fig. 3A

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
TOTAL MONOUNSATURATED FATTY ACID CONTENT
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100
1990

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- 1 -

	Thr Val Gly Leu Ile Phe His Ser	Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser	Fad2-D wt
1121	Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser	Fad2-D (GA316)	IMC129
1121	Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser	Fad2-F wt	
1121	Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser	Fad2-F	
1121	Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser	(TA515)	Q508
1121	Leu Val Pro Tyr Phe Ser Trp Lys Tyr Ser	(GA908)	Q4275

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Fig. 3B

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
 Dharma R. Kodali et al.
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161	Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu Gly Arg Thr Val	Fad2-D wt
161	Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu Gly Arg Thr Val	Fad2-D (GA316) IMC129
161	Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu Gly Arg Thr Val	Fad2-F wt
161	Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr His Asn Asn Pro Leu Gly Arg Thr Val	Fad2-F (TA515) Q508
161	Lys Lys Ser Asp Ile Lys Trp Tyr Gly Lys Tyr Leu Asn Asn Pro Leu Gly Arg Thr Val	Fad2-F (GA908) Q4275
170		
180		
181	Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu Tyr Leu Ala Phe Asn Val Ser Gly	Fad2-D wt
181	Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu Tyr Leu Ala Phe Asn Val Ser Gly	Fad2-D (GA316) IMC129
181	Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu Tyr Leu Ala Phe Asn Val Ser Gly	Fad2-F wt
181	Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu Tyr Leu Ala Phe Asn Val Ser Gly	Fad2-F (TA515) Q508
181	Met Leu Thr Val Gln Phe Thr Leu Gly Trp Pro Leu Tyr Leu Ala Phe Asn Val Ser Gly	Fad2-F (GA908) Q4275
190		
200		
201	Arg Pro Tyr Asp GLY GLY Phe Ala Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp	Fad2-D wt
201	Arg Pro Tyr Asp GLY GLY Phe Ala Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp	Fad2-D (GA316) IMC129
201	Arg Pro Tyr Asp GLY GLY Phe Ala Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp	Fad2-F wt
201	Arg Pro Tyr Asp GLY GLY Phe Ala Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp	Fad2-F (TA515) Q508
201	Arg Pro Tyr Asp GLY GLY Phe Ala Cys His Phe His Pro Asn Ala Pro Ile Tyr Asn Asp	Fad2-F (GA908) Q4275
210		
220		
221	Arg Glu Arg Leu Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu	Fad2-D wt
221	Arg Glu Arg Leu Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu	Fad2-D (GA316) IMC129
221	Arg Glu Arg Leu Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu	Fad2-F wt
221	Arg Glu Arg Leu Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu	Fad2-F (TA515) Q508
221	Arg Glu Arg Leu Gln Ile Tyr Ile Ser Asp Ala Gly Ile Leu Ala Val Cys Tyr Gly Leu	Fad2-F (GA908) Q4275
230		
240		

Fig. 3C

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
 TOTAL MONOUNSATURATED FATTY ACID CONTENT
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241	Tyr Arg Tyr Ala Ala Val Gln Gly Val Ala Ser Met Val Cys Phe Tyr Gly Val Pro Leu	Fad2-D wt
241	Tyr Arg Tyr Ala Ala Val Gln Gly Val Ala Ser Met Val Cys Phe Tyr Gly Val Pro Leu	Fad2-D (GA316) IMC129
241	Phe Arg Tyr Ala Ala Ala Gln Gly Val Ala Ser Met Val Cys Phe Tyr Gly Val Pro Leu	Fad2-F wt
241	Phe Arg Tyr Ala Ala Ala Gln Gly Val Ala Ser Met Val Cys Phe Tyr Gly Val Pro Leu	Fad2-F (TA515) Q508
241	Phe Arg Tyr Ala Ala Ala Gln Gly Val Ala Ser Met Val Cys Phe Tyr Gly Val Pro Leu	Fad2-F (GA908) Q4275
250	-----	
260	-----	
261	Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr Leu Gln His Thr His Pro Ser Leu	Fad2-D wt
261	Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr Leu Gln His Thr His Pro Ser Leu	Fad2-D (GA316) IMC129
261	Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr Leu Gln His Thr His Pro Ser Leu	Fad2-F wt
261	Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr Leu Gln His Thr His Pro Ser Leu	Fad2-F (TA515) Q508
261	Ile Val Asn Gly Phe Leu Val Leu Ile Thr Tyr Leu Gln His Thr His Pro Ser Leu	Fad2-F (GA908) Q4275
270	-----	
280	-----	
281	Pro His Tyr Asp Ser Ser Glu Trp Asp Trp Leu Arg Gly Ala Leu Ala Thr Val Asp Arg	Fad2-D wt
281	Pro His Tyr Asp Ser Ser Glu Trp Asp Trp Leu Arg Gly Ala Leu Ala Thr Val Asp Arg	Fad2-D (GA316) IMC129
281	Pro His Tyr Asp Ser Ser Glu Trp Asp Trp Leu Arg Gly Ala Leu Ala Thr Val Asp Arg	Fad2-F wt
281	Pro His Tyr Asp Ser Ser Glu Trp Asp Trp Leu Arg Gly Ala Leu Ala Thr Val Asp Arg	Fad2-F (TA515) Q508
281	Pro His Tyr Asp Ser Ser Glu Trp Asp Trp Leu Arg Gly Ala Leu Ala Thr Val Asp Arg	Fad2-F (GA908) Q4275
290	-----	
300	-----	
301	Asp Tyr Gly Ile Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His	Fad2-D wt
301	Asp Tyr Gly Ile Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His	Fad2-D (GA316) IMC129
301	Asp Tyr Gly Ile Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His	Fad2-F wt
301	Asp Tyr Gly Ile Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His	Fad2-F (TA515) Q508
301	Asp Tyr Gly Ile Leu Asn Lys Val Phe His Asn Ile Thr Asp Thr His Val Ala His His	Fad2-F (GA908) Q4275

Fig. 3D

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
TOTAL MONOUNSATURATED FATTY ACID CONTENT
Dharma R. Kodali et al.
07148-072002

Fig. 3E

PLANTS, SEEDS AND OILS HAVING AN ELEVATED
TOTAL MONOUNSATURATED FATTY ACID CONTENT
Dharma R. Kodali et al.
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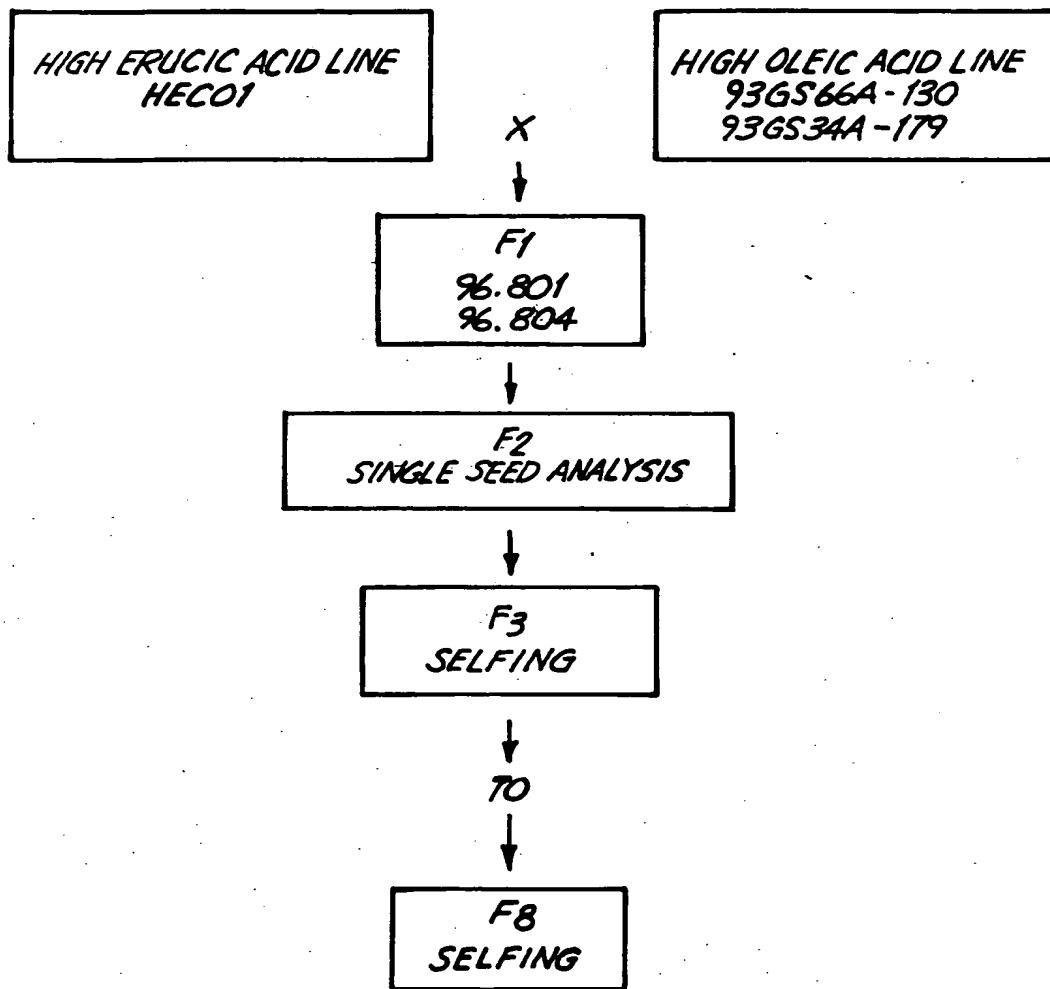


Fig. 4